



PTO/SB/089 (08-03)
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Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known

Application Number	10/809,089
Filing Date	03/25/04
First Named Inventor	Andrew R. Marks
Art Unit	1624
Examiner Name	to be assigned
Attorney Docket Number	5199-144

Sheet 1 of 16

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Alvarez et al., Late post-myocardial infarction induces a tetrodotoxin-resistant Na ⁺ current in rat cardiomyocytes.	
		J. Mol. Cell Cardiol., 32: 1169-1179, 2000	
		Antiarrhythmic effects of JTV-519, a novel cardioprotective drug, on atrial fibrillation / flutter in a canine sterile pericarditis model.	
		J. Cardiovasc. Electrophysiol., 14: 880-884, 2003	
		Antos et al., Dilated cardiomyopathy and sudden death resulting from constitutive activation of protein kinase A.	
		Circ. Res., 89: 997-1004, 2001	
		Barbone et al., Comparison of right and left ventricular responses to left ventricular assist device support in patients with severe heart failure:	
		a primary role of mechanical unloading underlying reverse remodeling.	
		Circulation, 104: 670-675, 2001	

Examiner Signature	/Benjamin J. Packard/	Date Considered	11/15/2007
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		Bennett and Pentecost, The pattern of onset and spontaneous cessation of atrial fibrillation in man.	
		Circulation, 41: 981-988, 1970	
		Bennett et al., Identification and characterization of the murine FK506 binding protein (FKBP) 12.6 gene.	
		Mamm. Genome, 9: 1069-1071, 1998	
		Beuckelmann et al., Intracellular calcium handling in isolated ventricular myocytes from patients with terminal heart failure.	
		Circ., 85: 1046-1055, 1992	
		Brillantes et al., Stabilization of calcium release channel (ryanodine receptor) function by FK506-binding protein.	
		Cell, 77: 513-523, 1994	
		Bristow et al., Decreased catecholamine sensitivity and beta-adrenergic -receptor density in failing human hearts.	
		N. Engl. J. Med., 307: 205-211, 1982	

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		Burashnikov and Antzelevitch, Reinduction of atrial fibrillation immediately after termination of the arrhythmia is mediated by late phase 3 early afterdepolarization-induced triggered activity.	
		Circulation, 107: 2355-2360, 2003	
		Cameron et al., FKBP12 binds the inositol 1,4,5-trisphosphate receptor at leucine-proline (1400-1401) and anchors calcineurin to this	
		FK506-like domain.	
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		N. Engl. J. Med., 267: 650, 1962	

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		Chugh et al., Epidemiology and natural history of atrial fibrillation: clinical implications.	
		J. Am. Coll. Cardiol., 37: 371-378, 2001	
		Crane field, P.F., Action potentials, afterpotentials, and arrhythmias.	
		Circ. Res., 41: 415-423, 1977	
		Daoud et al., Effect of verapamil and procainamide on atrial fibrillation-induced electrical remodeling in humans.	
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		Am. J. Physiol. Heart Circ. Physiol., 285: H1378-1384, 2003	
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		Circulation, 94: 2285-2296, 1996	

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		Elvan et al., Pacing-induced chronic atrial fibrillation impairs sinus node function in dogs: electrophysiological remodeling.	
		Circulation, 94: 2953-2960, 1996	
		Fabiato, A., Calcium-induced release of calcium from the cardiac sarcoplasmic reticulum.	
		Am. J. Physiol., 245: C1-C14, 1983	
		Falk, R.H., Atrial fibrillation.	
		N. Engl. J. Med., 344: 1067-1078, 2001	
		Fozzard, H.A., Afterdepolarizations and triggered activity.	
		Basic Res. Cardiol., 87: 105-113, 1992	
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		Circulation, 96: 4027-4035, 1997	

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		Gillo et al., Calcium entry during induced differentiation in murine erythroleukemia cells.	
		Blood, 81: 783-792, 1993	
		Goette et al., Electrical remodeling in atrial fibrillation: time course and mechanisms.	
		Circulation, 94: 2968-2974, 1996	
		Gomez et al., Defective excitation-contraction coupling in experimental cardiac hypertrophy and heart failure.	
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		Gwathmey et al., Abnormal intracellular calcium handling in myocardium from patients with end-stage heart failure.	
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		Hain et al., Phosphorylation modulates the function of the calcium release channel of sarcoplasmic reticulum from cardiac muscle.	
		J. Biol. Chem., 270: 2074-2081, 1995	

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		Hara et al., Steady-state and nonsteady-state action potentials in fibrillating canine atrium: abnormal rate adaptation and its possible mechanisms.	
		Cardiovasc. Res., 42: 455-469, 1999	
		Jayaraman et al., FK506 binding protein associated with the calcium release channel (ryanodine receptor).	
		J. Biol. Chem., 267: 9474-9477, 1992	
		Jayaraman et al., Regulation of the inositol 1,4,5-trisphosphate receptor by tyrosine phosphorylation.	
		Science, 272: 1492-1494, 1996	
		Kaftan et al., Effects of rapamycin on ryanodine receptor / Ca (2+)-release channels from cardiac muscle.	
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		Kneller et al., Remodeling of Ca2+ - handling by atrial tachycardia: evidence for a role in loss of rate-adaptation.	
		Cardiovasc. Res., 54: 416-426, 2002	

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		Kumagai et al., Antiarrhythmic effects of JTV-519, a novel cardioprotective drug, on atrial fibrillation / flutter in a canine sterile pericarditis model.	
		J. Cardiovasc. Electrophysiol., 14: 880-884, 2003	
		Laitinen et al., Mutations of the cardiac ryanodine receptor (RyR2) gene in familial polymorphic ventricular tachycardia.	
		Circulation, 103: 485-490, 2001	
		Leenhardt et al., Catecholaminergic polymorphic ventricular tachycardia in children: a 7-year follow-up of 21 patients.	
		Circulation, 91: 1512-1519, 1995	
		Leistad et al., Atrial contractile dysfunction after short-term atrial fibrillation is reduced by verapamil but increased by BAY K8644.	
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		Levy et al., Long-term trends in the incidence of and survival with heart failure.	
		N. Engl. J. Med., 347: 1397-1402, 2002	
		Marban et al., Mechanisms of arrhythmogenic delayed and early afterdepolarizations in ferret ventricular muscle.	
		J. Clin. Invest., 78: 1185-1192, 1986	
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		Physiol. Rev., 76: 631-649, 1996	
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		Circ. Res., 87: 8-11, 2000	
		Marks et al., Progression of heart failure: is protein kinase a hyperphosphorylation of the ryanodine receptor a contributing factor?	
		Circulation, 105: 272-275, 2002	

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		Marx et al., Coupled gating between individual skeletal muscle Ca ²⁺ release channels (ryanodine receptors).	
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		Cell, 101: 365-376, 2000	
		Mohler et al., Ankyrin-B mutation causes type 4 long-QT cardiac arrhythmia and sudden cardiac death.	
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		Nabauer et al., Regulation of calcium release is gated by calcium current, not gating charge, in cardiac myocytes.	
		Science, 244: 800-803, 1989	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known

Application Number	10/809,089
Filing Date	03/25/04
First Named Inventor	Andrew R. Marks
Art Unit	1624
Examiner Name	to be assigned
Attorney Docket Number	5199-144

Sheet 11 of 16

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Ono et al., Altered interaction of FKBP12.6 with ryanodine receptor as a cause of abnormal Ca ²⁺ release in heart failure.	
		Cardiovasc. Res., 48: 323-331, 2000	
		Priori et al., Clinical and molecular characterization of patients with catecholaminergic polymorphic ventricular tachycardia.	
		Circulation, 106: 69-74, 2002	
		Priori et al., Mutations in the cardiac ryanodine receptor gene (hRyR2) underlie catecholaminergic polymorphic ventricular tachycardia.	
		Circulation, 103: 196-200, 2001	
		Ramirez et al., Mathematical analysis of canine atrial action potentials: rate, regional factors, and electrical remodeling.	
		Am. J. Physiol. Heart Circ. Physiol., 279: H1767-1785, 2000	
		Reiken et al., Beta-adrenergic receptor blockers restore cardiac calcium release channel (ryanodine receptor) structure and function in heart failure.	
		Circulation, 104: 2843-2848, 2001	

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		Reiken et al., Beta-blockers restore calcium release channel function and improve cardiac muscle performance in human heart failure.	
		Circulation, 107: 2459-2466, 2003	
		Reiken et al., PKA phosphorylation dissociates FKBP12 from the calcium release channel (ryanodine receptor) in skeletal muscle: defective regulation in heart failure.	
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		Rensma et al., Length of excitation wave and susceptibility to reentrant atrial arrhythmias in normal conscious dogs.	
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		Semsarian et al., The L-type calcium channel inhibitor diltiazem prevents cardiomyopathy in a mouse model.	
		J. Clin. Invest., 109: 1013-1020, 2002	

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		Song and Belardinelli, ATP promotes development of afterdepolarizations and triggered activity in cardiac myocytes.	
		Am. J. Physiol., 267: H2005-2011, 1994	
		Sun et al., Cellular mechanisms of atrial contractile dysfunction caused by sustained atrial tachycardia.	
		Circulation, 98: 719-727, 1998	
		Swan et al., Arrhythmic disorder mapped to chromosome 1q42-q43 causes malignant polymorphic ventricular tachycardia in structurally normal hearts.	
		J. Am. Coll. Cardiol., 34: 2035-2042, 1999	
		Tieleman et al., Verapamil reduces tachycardia-induced electrical remodeling of the atrial.	
		Circulation, 95: 1945-1953, 1997	
		Timmermans et al., Immediate reinitiation of atrial fibrillation following internal atrial defibrillation.	
		J. Cardiovasc. Electrophysiol., 9: 122-128, 1998	

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		Valdivia et al., Rapid adaptation of cardiac ryanodine receptors: modulation by Mg ²⁺ and phosphorylation.	
		Science, 267: 1997-2000, 1995	
		Wang et al., Regional and functional factors determining induction and maintenance of atrial fibrillation in dogs.	
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		Wehrens et al., FKBP12.6 deficiency and defective calcium release channel (ryanodine receptor) function linked to exercise-induced sudden cardiac death.	
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		Wellens et al., Atrioverter: an implantable device for the treatment of atrial fibrillation.	
		Circulation, 98: 1651-1656, 1998	
		Wijffels et al., Atrial fibrillation begets atrial fibrillation: a study in awake chronically instrumented goats.	
		Circulation, 92:1954-1968, 1995	

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First Named Inventor Andrew R. Marks

Art Unit 1624

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		Wit and Rosen, Pathophysiologic mechanisms of cardiac arrhythmias.	
		Am. Heart J., 106: 798-811, 1983	
		Yamamoto et al., Abnormal Ca ²⁺ release from cardiac sarcoplasmic reticulum in tachycardia-induced heart failure.	
		Cardiovasc. Res., 44: 146-155, 1999	
		Yano et al., Altered stoichiometry of FKBP12.6 versus ryanodine receptor as a cause of abnormal Ca ²⁺ leak through ryanodine receptor in heart failure.	
		Circulation, 102: 2131-2136, 2000	
		Yano et al., FKBP12.6-mediated stabilization of calcium-release channel (ryanodine receptor) as a novel therapeutic strategy against heart failure.	
		Circulation, 107: 477-484, 2003	
		Yu et al., Tachycardia-induced change of atrial refractory period in humans: rate dependency and effects of antiarrhythmic drugs.	
		Circulation, 97: 2331-2337, 1998	

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		Yue et al., Ionic remodeling underlying action potential changes in a canine model of atrial fibrillation.	
		Circ. Res., 81: 512-525, 1997	

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